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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Obsolete
Core Processor	FR81S
Core Size	32-Bit Single-Core
Speed	80MHz
Connectivity	CANbus, CSIO, I ² C, LINbus, SPI, UART/USART
Peripherals	DMA, LVD, POR, PWM, WDT
Number of I/O	56
Program Memory Size	320KB (320K x 8)
Program Memory Type	FLASH
EEPROM Size	64K x 8
RAM Size	56K x 8
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V
Data Converters	A/D 32x12b; D/A 1x8b
Oscillator Type	External
Operating Temperature	-40°C ~ 105°C (TA)
Mounting Type	Surface Mount
Package / Case	80-LQFP
Supplier Device Package	80-LQFP (12x12)
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/mb91f522dsbpmc-gse2

3. Pin Description

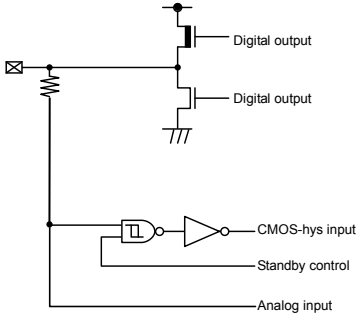
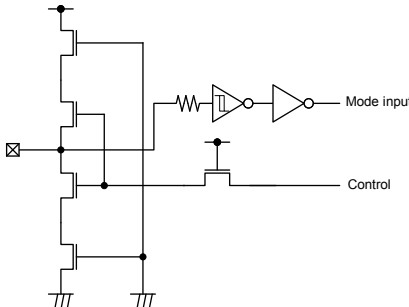
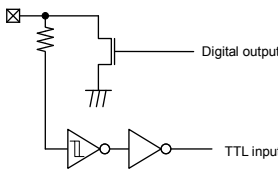
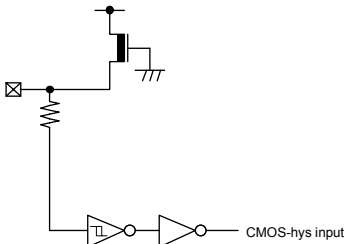
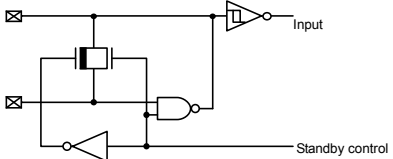
Pin no.						Pin Name	Polarity	I/O circuit types*8	Function*9
64	80	100	120	144	176				
-	-	-	-	2	2	P015	-	A	General-purpose I/O port
-	-	-	-	-	-	D29	-		External bus data bit29 I/O (0)
-	-	-	-	-	-	TRG0_0	-		PPG trigger 0 input (0)
-	-	-	-	3	3	P016	-	A	General-purpose I/O port
-	-	-	-	-	-	D30	-		External bus data bit30 I/O (0)
-	-	-	-	-	-	TRG1_0	-		PPG trigger 1 input (0)
-	-	-	-	-	4	P170	-	A	General-purpose I/O port
-	-	-	-	-	-	PPG36_1	-		PPG ch.36 output (1)
-	-	-	-	4	5	P017	-	A	General-purpose I/O port
-	-	-	-	-	-	D31	-		External bus data bit31 I/O (0)
-	-	-	-	-	-	TRG2_0	-		PPG trigger 2 input (0)
-	-	-	-	-	6	P171	-	A	General-purpose I/O port
-	-	-	-	-	-	PPG37_1	-		PPG ch.37 output (1)
2*1	2*1	2*1	2*1	5	7	P020	-	F	General-purpose I/O port
-	-	-	-	-	-	ASX*2,*3,*4,*5	-		External bus/Address strobe output
-	-	-	-	-	-	SIN3_1	-		Multi-function serial ch.3 serial data input (1)
-	-	-	-	-	-	TRG3_0	-		PPG trigger 3 input (0)
-	-	-	-	-	-	TIN0_2	-		Reload timer ch.0 event input (2)
-	-	-	-	-	-	RTO5_1	-		Waveform generator ch.5 output pin (1)
-	-	-	3*1	6	8	P021	-	A	General-purpose I/O port
-	-	-	-	-	-	CS0X*5	-		External bus chip select 0 output
-	-	-	-	-	-	SOT3_1	-		Multi-function serial ch.3 serial data output (1)
-	-	-	-	-	-	TRG6_1	-		PPG trigger 6 input (1)
-	-	-	-	-	-	TRG4_0	-		PPG trigger 4 input (0)
-	-	-	4*1	7	9	P022	-	F	General-purpose I/O port
-	-	-	-	-	-	CS1X*5	-		External bus chip select 1 output
-	-	-	-	-	-	SCK3_1	-		Multi-function serial ch.3 clock I/O (1)
-	-	-	-	-	-	TRG7_1	-		PPG trigger 7 input (1)
-	-	-	-	-	-	TRG5_0	-		PPG trigger 5 input (0)
-	-	-	5*1	8	10	P023	-	A	General-purpose I/O port
-	-	-	-	-	-	RDX*5	-		External bus/Read strobe output
-	-	-	-	-	-	SCS3_1	-		Serial chip select 3 output (1)
-	-	-	-	-	-	PPG32_0	-		PPG ch.32 output (0)
-	-	-	-	-	-	TIN0_0	-		Reload timer ch.0 event input (0)

Pin no.						Pin Name	Polarity	I/O circuit types*8	Function*9
64	80	100	120	144	176				
9 ^{*1}	11 ^{*1}	14 ^{*1}	17 ^{*1}	20	24	P035	-	I	General-purpose I/O port
						A07 ^{*2, *3, *4, *5}	-		External bus/Address bit7 output
						SIN8_0 ^{*2, *3}	-		Multi-function serial ch.8 serial data input (0)
						OCU8_1	-		Output compare ch.8 output (1)
						TOT4_0	-		Reload timer ch.4 output (0)
						AIN0_0	-		U/D counter ch.0 AIN input (0)
						INT11_0	-		INT11 External interrupt input (0)
10 ^{*1}	12 ^{*1}	15 ^{*1}	18 ^{*1}	21	25	P036	-	A	General-purpose I/O port
						A08 ^{*2, *3, *4, *5}	-		External bus/Address bit8 output (0)
						SCS8_0 ^{*2, *3}	-		Serial chip select 8 I/O (0)
						OCU7_1	-		Output compare ch.7 output (1)
						TOT5_0	-		Reload timer ch.5 output (0)
						BIN0_0	-		U/D counter ch.0 BIN input (0)
-	-	16 ^{*1}	19 ^{*1}	22	26	P037	-	A	General-purpose I/O port
						A09 ^{*4, *5}	-		External bus/Address bit9 output (0)
						OCU6_1	-		Output compare ch.6 output (1)
						TOT6_0	-		Reload timer ch.6 output (0)
						ZIN0_0	-		U/D counter ch.0 ZIN input (0)
-	-	-	-	-	27	P174	-	A	General-purpose I/O port
						TRG8_1	-		PPG trigger 8 input (1)
-	-	-	-	-	28	P175	-	A	General-purpose I/O port
						TRG9_1	-		PPG trigger 9 input (1)
11 ^{*1}	13 ^{*1}	17 ^{*1}	20 ^{*1}	23	29	P040	-	A	General-purpose I/O port
						A10 ^{*2, *3, *4, *5}	-		External bus/Address bit10 output (0)
						PPG23_1	-		PPG ch.23 output (1)
						TOT7_0	-		Reload timer ch.7 output (0)
						AIN1_0	-		U/D counter ch.1 AIN input (0)
						SIN0_1	-		Multi-function serial ch.0 serial data input (1)
12 ^{*1}	14 ^{*1}	18 ^{*1}	21 ^{*1}	24	30	P041	-	I	General-purpose I/O port
						A11 ^{*2, *3, *4, *5}	-		External bus/Address bit11 output (0)
						SIN9_0	-		Multi-function serial ch.9 serial data input (0)
						ICU9_1	-		Input capture ch.9 input (1)
						BIN1_0	-		U/D counter ch.1 BIN input (0)
						INT12_0	-		INT12 External interrupt input (0)

Pin no.						Pin Name	Polarity	I/O circuit types*8	Function*9
64	80	100	120	144	176				
-	-	-	28*1	31	39	P050	-	A	General-purpose I/O port
						A18*5	-		External bus/Address bit18 output
						TRG5_1	-		PPG trigger 5 input (1)
						PPG33_0	-		PPG ch.33 output (0)
-	-	-	-	32	40	P051	-	A	General-purpose I/O port
						A19	-		External bus/Address bit19 output
						TRG9_0	-		PPG trigger 9 input (0)
-	-	-	-	33	41	P052	-	A	General-purpose I/O port
						A20	-		External bus/Address bit20 output
						PPG34_0	-		PPG ch.34 output (0)
						INT14_0	-		INT14 External interrupt input (0)
16*1	19*1	24*1	29*1	34	42	P053	-	B	General-purpose I/O port
						A21*2,*3,*4,*5	-		External bus/Address bit21 output
						AN44	-		ADC analog 44 input
						PPG35_0	-		PPG ch.35 output (0)
						INT14_1	-		INT14 External interrupt input (1)
						SCK0_1	-		Multi-function serial ch.0 clock I/O (1)
-	-	-	-	35	43	P054	-	A	General-purpose I/O port
						SYSCLK	-		External bus/System clock output
						PPG36_0	-		PPG ch.36 output (0)
17*1	22*1	27*1	32*1	38	46	P055	-	G	General-purpose I/O port
						CS2X*2,*3,*4,*5	-		External bus chip select 2 output
						SIN10_0	-		Multi-function serial ch.10 serial data input (0)
						AN43	-		ADC analog 43 input
						PPG37_0	-		PPG ch.37 output (0)
						TIN4_1	-		Reload timer ch.4 event input (1)
-	-	-	-	-	47	P180	-	A	General-purpose I/O port
						PPG40_0	-		PPG ch.40 output (0)
-	-	-	-	-	48	P181	-	A	General-purpose I/O port
						PPG41_0	-		PPG ch.41 output (0)
-	-	-	33*1	39	49	P056	-	A	General-purpose I/O port
						CS3X*5	-		External bus chip select 3 output
						ICU9_0	-		Input capture ch.9 input (0)
						PPG0_1	-		PPG ch.0 output (1)
						ICU0_1	-		Input capture ch.0 input (1)
						TIN5_1	-		Reload timer ch.5 event input (1)
						DTTI_2	-		Waveform generator ch.0-ch.5 input pin (2)

Pin no.						Pin Name	Polarity	I/O circuit types*8	Function*9
64	80	100	120	144	176				
-	-	-	-	76	94	P092	-	B	General-purpose I/O port
						AN6	-		ADC analog 6 input
						PPG40_1	-		PPG ch.40 output (1)
						ICU2_0	-		Input capture ch.2 input (0)
						TOT0_1	-		Reload timer ch.0 output (1)
-	-	-	-	-	95	P192	-	A	General-purpose I/O port
						PPG24_1	-		PPG ch.24 output (1)
						TOT1_1	-		Reload timer ch.1 output (1)
34 *1	42 *1	52	62	77	96	P093	-	J	General-purpose I/O port
						TX0_1	-		CAN transmission data 0 output (1)
						SIN11_0	-		Multi-function serial ch.11 serial data input (0)
						AN7	-		ADC analog 7 input
						ICU4_2	-		Input capture ch.4 input (2)
						PPG16_1	-		PPG ch.16 output (1)
						ICU3_0	-		Input capture ch.3 input (0)
						TOT2_1 *2, *3	-		Reload timer ch.2 output (1)
-	-	-	-	78	97	P094	-	B	General-purpose I/O port
						AN8	-		ADC analog 8 input
						ICU4_0	-		Input capture ch.4 input (0)
						TOT3_1	-		Reload timer ch.3 output (1)
-	-	53	63	79	98	P095	-	B	General-purpose I/O port
						TX0(128)	-		CAN transmission data 0 output
						SCS11_0	-		Serial chip select 11 I/O (0)
						AN9	-		ADC analog 9 input
35	43	54	64	80	99	P096	-	G	General-purpose I/O port
						RX0(128)	-		CAN reception data 0 input
						SOT11_0 / SDA11	-		Multi-function serial ch.11 serial data output (0)/I ² C bus serial data I/O
						AN10	-		ADC analog 10 input
						INT0_0	-		INT0 External interrupt input (0)
36	44	55	65	81	100	P097	-	G	General-purpose I/O port
						SCK11_0 / SCL11	-		Multi-function serial ch.11 clock I/O (0)/I ² C bus serial clock I/O
						AN11	-		ADC analog 11 input
						ICU5_0	-		Input capture ch.5 input (0)
						PPG17_1	-		PPG ch.17 output (1)

Pin no.						Pin Name	Polarity	I/O circuit types*8	Function*9
64	80	100	120	144	176				
-	-	-	113 *1	133	161	P002	-	F	General-purpose I/O port
						D18 *5	-		External bus data bit18 I/O
						SCK1_0	-		Multi-function serial ch.1 clock I/O (0)
						TIOB0_1	-		TIOB input of Base timer ch.0 (1)
-	76 *1	96 *1	114 *1	134	162	P003	-	F	General-purpose I/O port
						D19 *3, *4, *5	-		External bus data bit19 I/O
						SIN2_0	-		Multi-function serial ch.2 serial data input (0)
						TIOB1_1	-		TIOB input of Base timer ch.1 (1)
						INT3_0	-		INT3 External interrupt input (0)
-	-	-	-	135	163	P004	-	A	General-purpose I/O port
						D20	-		External bus data bit20 I/O (0)
						SOT2_0	-		Multi-function serial ch.2 serial data output (0)
-	-	-	-	-	164	P164	-	A	General-purpose I/O port
						PPG32_1	-		PPG ch.32 output (1)
61 *1	77 *1	97 *1	115 *1	136 *1	165 *1	P005	-	F	General-purpose I/O port
						D21 *2, *3, *4, *5	-		External bus data bit21 I/O (0)
						SCK2_0 *2	-		Multi-function serial ch.2 clock I/O (0)
						ADTG0_1	-		A/D converter external trigger input 0 (1)
						INT7_1	-		INT7 External interrupt input (1)
						RX2(64) *4, *5, *6, *7	-		CAN reception data 2 input
-	-	-	-	-	166	P165	-	A	General-purpose I/O port
						PPG33_1	-		PPG ch.33 output (1)
62 *1	78 *1	98 *1	116 *1	137 *1	167 *1	P006	-	A	General-purpose I/O port
						D22 *2, *3, *4, *5	-		External bus data bit22 I/O (0)
						SCS2_0 *2	-		Serial chip select 2 I/O (0)
						ADTG1_1	-		A/D converter external trigger input 1 (1)
						INT2_1	-		INT2 External interrupt input (1)
						TX2(64) *4, *5, *6, *7	-		CAN transmission data 2 output
-	-	-	117 *1	138	168	P007	-	A	General-purpose I/O port
						D23 *5	-		External bus data bit23 I/O
-	-	-	-	-	169	P166	-	A	General-purpose I/O port
						PPG34_1	-		PPG ch.34 output (1)
-	-	-	118 *1	139	170	P010	-	A	General-purpose I/O port
						D24 *5	-		External bus data bit24 I/O

Type	Circuit	Remarks
J		• Analog input, General-purpose I/O port (5V tolerant) • Output 4mA • CMOS hysteresis input
K		• Mode I/O • CMOS hysteresis input
L		• Open-drain I/O • Output 25mA (Nch open-drain) • TTL input
M		• CMOS hysteresis input • Pull-up resistor 50kΩ
N		• Main oscillation I/O

Address	Address offset value / Register name				Block
	+0	+1	+2	+3	
000954 _H	TPUTCN11 [R/W] B,H,W ---00000	—	—	—	Time Protection Unit [S]
000958 _H	TPUTCN12 [R/W] B,H,W ---00000	—	—	—	
00095C _H	TPUTCN13 [R/W] B,H,W ---00000	—	—	—	
000960 _H	TPUTCN14 [R/W] B,H,W ---00000	—	—	—	
000964 _H	TPUTCN15 [R/W] B,H,W ---00000	—	—	—	
000968 _H	TPUTCN16 [R/W] B,H,W ---00000	—	—	—	
00096C _H	TPUTCN17 [R/W] B,H,W ---00000	—	—	—	
000970 _H	TPUTCC0 [R] B,H,W ----- 00000000 00000000 00000000				
000974 _H	TPUTCC1 [R] B,H,W ----- 00000000 00000000 00000000				
000978 _H	TPUTCC2 [R] B,H,W ----- 00000000 00000000 00000000				
00097C _H	TPUTCC3 [R] B,H,W ----- 00000000 00000000 00000000				
000980 _H	TPUTCC4 [R] B,H,W ----- 00000000 00000000 00000000				
000984 _H	TPUTCC5 [R] B,H,W ----- 00000000 00000000 00000000				
000988 _H	TPUTCC6 [R] B,H,W ----- 00000000 00000000 00000000				
00098C _H	TPUTCC7 [R] B,H,W ----- 00000000 00000000 00000000				
000990 _H to 0009FC _H	—	—	—	—	
000A00 _H to 000BEC _H	—	—	—	—	Reserved
000BF0 _H	HSCFR [R/W] B,H,W -----00 00000000 00000000				OCDU
000BF4 _H	—	—	—	—	

Address	Address offset value / Register name				Block
	+0	+1	+2	+3	
001434 _H	ADRCSS24[R/W] B,H,W 00000000	ADRCSS25[R/W] B,H,W 00000000	ADRCSS26[R/W] B,H,W 00000000	ADRCSS27[R/W] B,H,W 00000000	12-bit A/D converter 1/2 unit
001438 _H	ADRCSS28[R/W] B,H,W 00000000	ADRCSS29[R/W] B,H,W 00000000	ADRCSS30[R/W] B,H,W 00000000	ADRCSS31[R/W] B,H,W 00000000	
00143C _H	ADRCOT0[R] B,H,W 00000000 00000000 00000000 00000000				
001440 _H	ADRCIF0[R,W] B,H,W 00000000 00000000 00000000 00000000				
001444 _H	ADSCANS0[R/W] B,H,W 000-----	—	—	—	
001448 _H	ADNCS0[R/W] B,H,W 0-000-00	ADNCS1[R/W] B,H,W 0-000-00	ADNCS2[R/W] B,H,W 0-000-00	ADNCS3[R/W] B,H,W 0-000-00	
00144C _H	ADNCS4[R/W] B,H,W 0-000-00	ADNCS5[R/W] B,H,W 0-000-00	ADNCS6[R/W] B,H,W 0-000-00	ADNCS7[R/W] B,H,W 0-000-00	
001450 _H	ADNCS8[R/W] B,H,W 0-000-00	ADNCS9[R/W] B,H,W 0-000-00	ADNCS10[R/W] B,H,W 0-000-00	ADNCS11[R/W] B,H,W 0-000-00	
001454 _H	ADNCS12[R/W] B,H,W 0-000-00	ADNCS13[R/W] B,H,W 0-000-00	ADNCS14[R/W] B,H,W 0-000-00	ADNCS15[R/W] B,H,W 0-000-00	
001458 _H	ADPRTF0[R] B,H,W 00000000 00000000 00000000 00000000				
00145C _H	ADEOCF0[R] B,H,W 11111111 11111111 11111111 11111111				
001460 _H	ADCS0[R] B,H,W 0-----		ADCH0[R] B,H,W ---00000	ADMD0[R/W] B,H,W 0---0000	
001464 _H	ADSTPCS0[R/W] B,H,W 00000000	ADSTPCS1[R/W] B,H,W 00000000	ADSTPCS2[R/W] B,H,W 00000000	ADSTPCS3[R/W] B,H,W 00000000	
001468 _H	ADSTPCS4[R/W] B,H,W 00000000	ADSTPCS5[R/W] B,H,W 00000000	ADSTPCS6[R/W] B,H,W 00000000	ADSTPCS7[R/W] B,H,W 00000000	
00146C _H	—				12-bit A/D converter 2/2 unit
001470 _H	ADTSS1[R/W] B,H,W -----0	—	—	—	
001474 _H	ADTSE1[R/W] B,H,W ----- 00000000 00000000				
001478 _H	ADCOMP32/ADCOMPB32[R/W] H,W 00000000 00000000		ADCOMP33/ADCOMPB33[R/W] H,W 00000000 00000000		

Address	Address offset value / Register name				Block
	+0	+1	+2	+3	
001CCC _H	PTPC37 [R/W] H,W 00000000 00000000		—	—	PPG37
001CD0 _H	PCN38 [R/W] B,H,W 00000000 000000-0		PCSR38 [W] H,W XXXXXXXXXX XXXXXXXXX		PPG38
001CD4 _H	PDUT38 [W] H,W XXXXXXXXXX XXXXXXXXX		PTMR38 [R] H,W 11111111 11111111		
001CD8 _H	PCN238 [R/W] B,H,W --000000 ----110		PSDR38 [R/W] H,W 00000000 00000000		
001CDC _H	PTPC38 [R/W] H,W 00000000 00000000		—	—	
001CE0 _H	PCN39 [R/W] B,H,W 00000000 000000-0		PCSR39 [W] H,W XXXXXXXXXX XXXXXXXXX		PPG39
001CE4 _H	PDUT39 [W] H,W XXXXXXXXXX XXXXXXXXX		PTMR39 [R] H,W 11111111 11111111		PPG39
001CE8 _H	PCN239 [R/W] B,H,W --000000 ----110		PSDR39 [R/W] H,W 00000000 00000000		
001CEC _H	PTPC39 [R/W] H,W 00000000 00000000		—	—	
001CF0 _H	PCN40 [R/W] B,H,W 00000000 000000-0		PCSR40 [W] H,W XXXXXXXXXX XXXXXXXXX		PPG40
001CF4 _H	PDUT40 [W] H,W XXXXXXXXXX XXXXXXXXX		PTMR40 [R] H,W 11111111 11111111		
001CF8 _H	PCN240 [R/W] B,H,W --000000 ----110		PSDR40 [R/W] H,W 00000000 00000000		
001CFC _H	PTPC40 [R/W] H,W 00000000 00000000		—	—	
001D00 _H	PCN41 [R/W] B,H,W 00000000 000000-0		PCSR41 [W] H,W XXXXXXXXXX XXXXXXXXX		PPG41
001D04 _H	PDUT41 [W] H,W XXXXXXXXXX XXXXXXXXX		PTMR41 [R] H,W 11111111 11111111		
001D08 _H	PCN241 [R/W] B,H,W --000000 ----110		PSDR41 [R/W] H,W 00000000 00000000		
001D0C _H	PTPC41 [R/W] H,W 00000000 00000000		—	—	
001D10 _H	PCN42 [R/W] B,H,W 00000000 000000-0		PCSR42 [W] H,W XXXXXXXXXX XXXXXXXXX		PPG42
001D14 _H	PDUT42 [W] H,W XXXXXXXXXX XXXXXXXXX		PTMR42 [R] H,W 11111111 11111111		
001D18 _H	PCN242 [R/W] B,H,W --000000 ----110		PSDR42 [R/W] H,W 00000000 00000000		
001D1C _H	PTPC42 [R/W] H,W 00000000 00000000		—	—	

Address	Address offset value / Register name				Block
	+0	+1	+2	+3	
0021C _{0H} to 0021F _{C_H}	—				CAN1 (64msb)
00220 _{0H}	CTRLR2 [R/W] B,H,W ----- 000-0001		STATR2 [R/W] B,H,W ----- 00000000		CAN2 (64msb)
00220 _{4H}	ERRCNT2 [R] B,H,W 00000000 00000000		BTR2 [R/W] B,H,W -0100011 00000001		
00220 _{8H}	INTR2 [R] B,H,W 00000000 00000000		TESTR2 [R/W] B,H,W ----- X00000--		
00220 _{C_H}	BRPER2 [R/W] B,H,W ----- ----0000		—		
00221 _{0H}	IF1CREQ2 [R/W] B,H,W 0----- 00000001		IF1CMSK2 [R/W] B,H,W ----- 00000000		
00221 _{4H}	IF1MSK22 [R/W] B,H,W 11-11111 11111111		IF1MSK12 [R/W] B,H,W 11111111 11111111		
00221 _{8H}	IF1ARB22 [R/W] B,H,W 00000000 00000000		IF1ARB12 [R/W] B,H,W 00000000 00000000		
00221 _{C_H}	IF1MCTR2 [R/W] B,H,W 00000000 0---0000		—		
00222 _{0H}	IF1DTA12 [R/W] B,H,W 00000000 00000000		IF1DTA22 [R/W] B,H,W 00000000 00000000		
00222 _{4H}	IF1DTB12 [R/W] B,H,W 00000000 00000000		IF1DTB22 [R/W] B,H,W 00000000 00000000		
00222 _{8H}	—	—	—	—	
00222 _{C_H}	—	—	—	—	
00223 _{0H} , 00223 _{4H}	Reserved (IF1 data mirror)				
00223 _{8H}	—	—	—	—	
00223 _{C_H}	—	—	—	—	
00224 _{0H}	IF2CREQ2 [R/W] B,H,W 0----- 00000001		IF2CMSK2 [R/W] B,H,W ----- 00000000		
00224 _{4H}	IF2MSK22 [R/W] B,H,W 11-11111 11111111		IF2MSK12 [R/W] B,H,W 11111111 11111111		
00224 _{8H}	IF2ARB22 [R/W] B,H,W 00000000 00000000		IF2ARB12 [R/W] B,H,W 00000000 00000000		
00224 _{C_H}	IF2MCTR2 [R/W] B,H,W 00000000 0---0000		—		
00225 _{0H}	IF2DTA12 [R/W] B,H,W 00000000 00000000		IF2DTA22 [R/W] B,H,W 00000000 00000000		

Parameter	Symbol	Pin name	Conditions	Value		Unit	Remarks
				Min	Max		
SCS $\uparrow$ →SCK $\uparrow$ setup time	t_{CSSE}	SCK1 to SCK11 SCS1 to SCS3, SCS40 to SCS43, SCS50 to SCS53, SCS60 to SCS63, SCS70 to SCS73, SCS8 to SCS11	-	$3t_{CPP}+30$	-	ns	External shift clock mode output pin: $C_L=50pF$
SCK $\downarrow$ →SCS $\downarrow$ hold time	t_{CSHE}			+0	-	ns	
SCS deselect time	t_{CSDE}	SCS1 to SCS3, SCS40 to SCS43, SCS50 to SCS53, SCS60 to SCS63, SCS70 to SCS73, SCS8 to SCS11		$3t_{CPP}+30$	-	ns	
SCS $\uparrow$ →SOT delay time	t_{DSE}	SCS1 , SCS2, SCS50~SCS53, SCS60~SCS63, SCS70~SCS73, SCS8~SCS11 SOT1 , SOT2, SOT5~SOT11		-	40	ns	
		SCS3 , SCS40~SCS43 SOT3 ,SOT4		-	300	ns	
SCS $\downarrow$ →SOT delay time	t_{DEE}	SCS1 to SCS3, SCS40 to SCS43, SCS50 to SCS53, SCS60 to SCS63, SCS70 to SCS73, SCS8 to SCS11 SOT1 to SOT11	-	+0	-	ns	External shift clock mode output pin: $C_L=50pF$
SCK $\uparrow$ →SCS $\uparrow$ clock switch time	t_{SCC}	SCK1 , SCK2, SCK5 to SCK11 SCS1 , SCS2, SCS50 to SCS53, SCS60 to SCS63, SCS70 to SCS73, SCS8 to SCS11	-	$3t_{CPP}-10$	$3t_{CPP}+50$	ns	Internal shift clock mode Round operation output pin: $C_L=50pF$
		SCK3 , SCK4 SCS3 , SCS40 to SCS43		$3t_{CPP}-300$	$3t_{CPP}+50$		

*1: t_{CSSU} =SCSTR:CSSU7-0×Serial chip select timing operating clock

*2: t_{CSHD} =SCSTR:CSHD7-0×Serial chip select timing operating clock

*3: t_{CSDS} =SCSTR:CSDS15-0×Serial chip select timing operating clock

Regardless of the deselect time setting, once after the serial chip select pin becomes inactive, it will take at least five peripheral bus clock cycles to be active again

Please see the hardware manual for details of above-mentioned *1,*2, and *3.

Part number	Sub clock	CSV Initial value	LVD Initial value	Package ⁷²
MB91F526KWCPMC	Yes	ON	ON	LQS • 144 pin, (Lead pitch 0.5mm) Plastic
MB91F526KYCPMC			OFF	
MB91F526KJCPMC		OFF	ON	
MB91F526KLCPMC			OFF	
MB91F525KWCPMC		ON	ON	
MB91F525KYCPMC			OFF	
MB91F525KJCPMC		OFF	ON	
MB91F525KLCPMC			OFF	
MB91F524KWCPMC		ON	ON	
MB91F524KYCPMC			OFF	
MB91F524KJCPMC		OFF	ON	
MB91F524KLCPMC			OFF	
MB91F523KWCPMC		ON	ON	
MB91F523KYCPMC			OFF	
MB91F523KJCPMC		OFF	ON	
MB91F523KLCPMC			OFF	
MB91F522KWCPMC		ON	ON	
MB91F522KYCPMC			OFF	
MB91F522KJCPMC		OFF	ON	
MB91F522KLCPMC			OFF	
MB91F526KSCPMC	None	ON	ON	
MB91F526KUCPMC			OFF	
MB91F526KHCPMC		OFF	ON	
MB91F526KKCPMC			OFF	
MB91F525KSCPMC		ON	ON	
MB91F525KUCPMC			OFF	
MB91F525KHCPMC		OFF	ON	
MB91F525KKCPMC			OFF	
MB91F524KSCPMC		ON	ON	
MB91F524KUCPMC			OFF	
MB91F524KHCPMC		OFF	ON	
MB91F524KKCPMC			OFF	
MB91F523KSCPMC		ON	ON	
MB91F523KUCPMC			OFF	
MB91F523KHCPMC		OFF	ON	
MB91F523KKCPMC			OFF	
MB91F522KSCPMC		ON	ON	
MB91F522KUCPMC			OFF	
MB91F522KHCPMC		OFF	ON	
MB91F522KKCPMC			OFF	

Part number	Sub clock	CSV Initial value	LVD Initial value	Package ^{*2}
MB91F526BWCPMC1	Yes	ON	ON	LQD • 64 pin, Plastic
MB91F526BYCPMC1			OFF	
MB91F526BJCPMC1		OFF	ON	
MB91F526BLCPMC1			OFF	
MB91F525BWCPMC1		ON	ON	
MB91F525BYCPMC1			OFF	
MB91F525BJCPMC1		OFF	ON	
MB91F525BLCPMC1			OFF	
MB91F524BWCPMC1		ON	ON	
MB91F524BYCPMC1			OFF	
MB91F524BJCPMC1		OFF	ON	
MB91F524BLCPMC1			OFF	
MB91F523BWCPMC1		ON	ON	
MB91F523BYCPMC1			OFF	
MB91F523BJCPMC1		OFF	ON	
MB91F523BLCPMC1			OFF	
MB91F522BWCPMC1		ON	ON	
MB91F522BYCPMC1			OFF	
MB91F522BJCPMC1		OFF	ON	
MB91F522BLCPMC1			OFF	
MB91F526BSCPMC1	None	ON	ON	
MB91F526BUCPMC1			OFF	
MB91F526BHCPMC1		OFF	ON	
MB91F526BKCPMC1			OFF	
MB91F525BSCPMC1		ON	ON	
MB91F525BUCPMC1			OFF	
MB91F525BHCPMC1		OFF	ON	
MB91F525BKCPMC1			OFF	
MB91F524BSCPMC1		ON	ON	
MB91F524BUCPMC1			OFF	
MB91F524BHCPMC1		OFF	ON	
MB91F524BKCPMC1			OFF	
MB91F523BSCPMC1		ON	ON	
MB91F523BUCPMC1			OFF	
MB91F523BHCPMC1		OFF	ON	
MB91F523BKCPMC1			OFF	
MB91F522BSCPMC1		ON	ON	
MB91F522BUCPMC1			OFF	
MB91F522BHCPMC1		OFF	ON	
MB91F522BKCPMC1			OFF	

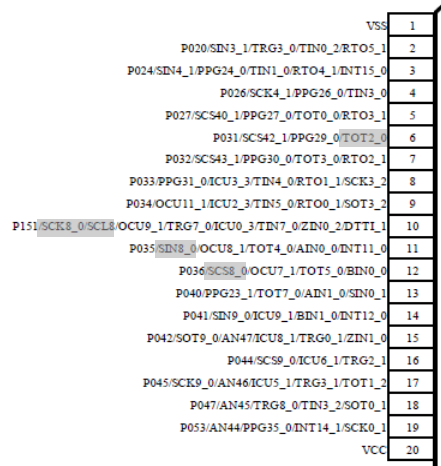
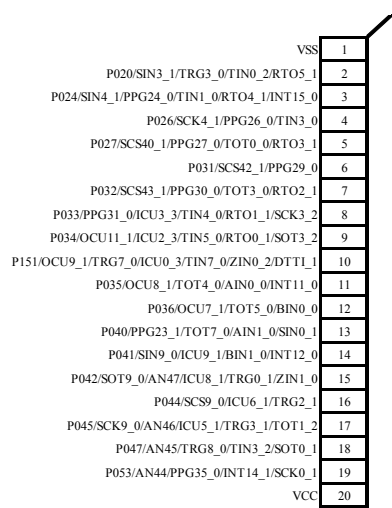
*1: It is only supported for customers who have already adopted it now. We do not recommend adopting new products.

*2: For details of the package, see "■ PACKAGE DIMENSIONS".

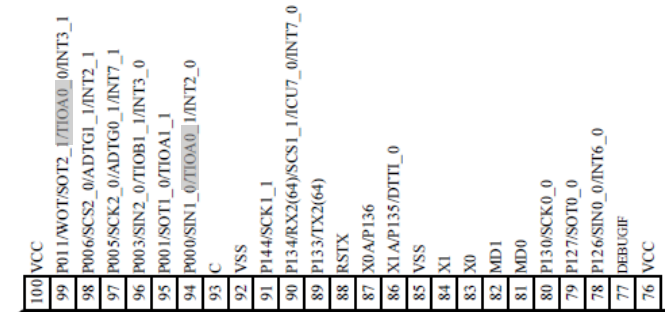
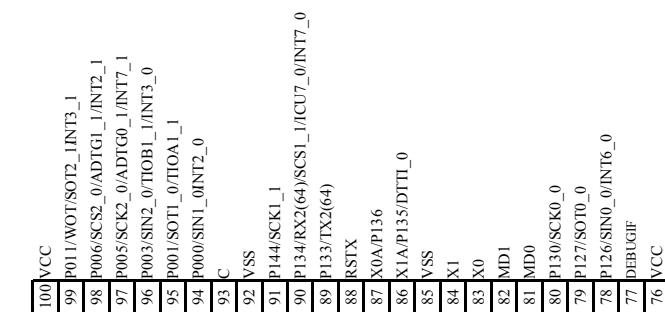
Part number	Sub clock	CSV Initial value	LVD Initial value	Package*
MB91F526KWDPMC1	Yes	ON	ON	LQN • 144 pin, (Lead pitch 0.4mm) Plastic
MB91F526KJDPMC1		OFF	ON	
MB91F525KWDPMC1		ON	ON	
MB91F525KJDPMC1		OFF	ON	
MB91F524KWDPMC1		ON	ON	
MB91F524KJDPMC1		OFF	ON	
MB91F523KWDPMC1		ON	ON	
MB91F523KJDPMC1		OFF	ON	
MB91F522KWDPMC1		ON	ON	
MB91F522KJDPMC1		OFF	ON	
MB91F526KSDPMC1	None	ON	ON	
MB91F526KHDPMC1		OFF	ON	
MB91F525KSDPMC1		ON	ON	
MB91F525KHDPMC1		OFF	ON	
MB91F524KSDPMC1		ON	ON	
MB91F524KHDPMC1		OFF	ON	
MB91F523KSDPMC1		ON	ON	
MB91F523KHDPMC1		OFF	ON	
MB91F522KSDPMC1		ON	ON	
MB91F522KHDPMC1		OFF	ON	
MB91F526JWDPMC	Yes	ON	ON	LQM • 120 pin, Plastic
MB91F526JJDPMC		OFF	ON	
MB91F525JWDPMC		ON	ON	
MB91F525JJDPMC		OFF	ON	
MB91F524JWDPMC		ON	ON	
MB91F524JJDPMC		OFF	ON	
MB91F523JWDPMC		ON	ON	
MB91F523JJDPMC		OFF	ON	
MB91F522JWDPMC		ON	ON	
MB91F522JJDPMC		OFF	ON	
MB91F526JSDPMC	None	ON	ON	
MB91F526JHDPMC		OFF	ON	
MB91F525JSDPMC		ON	ON	
MB91F525JHDPMC		OFF	ON	
MB91F524JSDPMC		ON	ON	
MB91F524JHDPMC		OFF	ON	
MB91F523JSDPMC		ON	ON	
MB91F523JHDPMC		OFF	ON	
MB91F522JSDPMC		ON	ON	
MB91F522JHDPMC		OFF	ON	

Part number	Sub clock	CSV Initial value	LVD Initial value	Package*
MB91F526BWDPMC1	Yes	ON	ON	LQD • 64 pin, Plastic
MB91F526BJDPMC1		OFF	ON	
MB91F525BWDPMC1		ON	ON	
MB91F525BJDPMC1		OFF	ON	
MB91F524BWDPMC1		ON	ON	
MB91F524BJDPMC1		OFF	ON	
MB91F523BWDPMC1		ON	ON	
MB91F523BJDPMC1		OFF	ON	
MB91F522BWDPMC1		ON	ON	
MB91F522BJDPMC1		OFF	ON	
MB91F526BSDPMC1	None	ON	ON	
MB91F526BHDPMC1		OFF	ON	
MB91F525BSDPMC1		ON	ON	
MB91F525BHDPMC1		OFF	ON	
MB91F524BSDPMC1		ON	ON	
MB91F524BHDPMC1		OFF	ON	
MB91F523BSDPMC1		ON	ON	
MB91F523BHDPMC1		OFF	ON	
MB91F522BSDPMC1		ON	ON	
MB91F522BHDPMC1		OFF	ON	

*: For details of the package, see "■ PACKAGE DIMENSIONS".

Page	Section	Change Results
14	■ Pin Assignment MB91F52xD	Signals indicated by the shading below deleted in Figure. - Left side  ↓ 

Page	Section	Change Results																																																																																																		
15	■ Pin Assignment MB91F52xF	Signals indicated by the shading below deleted in Figure. (Error) - Bottom <table><tr><td>49</td><td>P087/DA00/PG7_0/INT8_0</td></tr><tr><td>48</td><td>P086/DA01/PG6_0</td></tr><tr><td>47</td><td>P082/SIN5_0/ANI/PG2_0</td></tr><tr><td>46</td><td>P081/SOT5_0/SDA5/ANO/PG1_0</td></tr><tr><td>45</td><td>P153/SCS5_0/SC15/AN32/FRCK1_1/INT4_1</td></tr><tr><td>44</td><td>P152/SCS53_0</td></tr><tr><td>43</td><td>P073/SOT4_0/SDA4/AN33/ICU3_2</td></tr><tr><td>42</td><td>P072/SIN4_0/AN34/ICU2_2/INT5_0</td></tr><tr><td>41</td><td>P071/SCK4_2/AN35/ICU1_2/MONCLK</td></tr><tr><td>40</td><td>P070/ICU0_2</td></tr><tr><td>39</td><td>P067/AN36/FRCK5_0/AIN0_1</td></tr><tr><td>38</td><td>P066/SOT4_2/SCS3_0/AN37/FRCK4_0/BIN0_1</td></tr><tr><td>37</td><td>P065/SCS43_0/FRCK3_0/ZIN0_1/PG44_1</td></tr><tr><td>36</td><td>P064/SCS42_0/AN38/FRCK2_0/AIN1_1/PG43_1</td></tr><tr><td>35</td><td>P063/SCS41_0/AN39/PG5_1/FRCK1_0/BIN1_1</td></tr><tr><td>34</td><td>P062/SCS10_1/SCS40_0/AN40/PG4_1/FRCK0_0/TOT7_1/ZIN1_1</td></tr><tr><td>33</td><td>P061/SOT10_1/AN41/ICU6_0/PG3_1/ICU3_1/TOT6_1/INT13_1</td></tr><tr><td>32</td><td>P060/SCS10_0/PG2_1/ICU2_1/TOT5_1/INT13_0</td></tr><tr><td>31</td><td>AVSSI/AVRL1</td></tr><tr><td>30</td><td>AVRHI</td></tr><tr><td>29</td><td>P057/SCK10_1/AN42/ICU8_0/TRG0_2/PG1_1/ICU1_1/TIN6_1</td></tr><tr><td>28</td><td>AVCCI</td></tr><tr><td>27</td><td>P055/SIN10_0/AN43/PG37_0/TIN4_1</td></tr><tr><td>26</td><td>VSS</td></tr></table><table><tr><td>50</td><td>VCC</td></tr><tr><td>49</td><td>P087/DA00/PG7_0/INT8_0</td></tr><tr><td>48</td><td>P086/DA01/PG6_0</td></tr><tr><td>47</td><td>P082/SIN5_0/ANI/PG2_0</td></tr><tr><td>46</td><td>P081/SOT5_0/SDA5/ANO/PG1_0</td></tr><tr><td>45</td><td>P153/SCS5_0/SC15/AN32/FRCK1_1/INT4_1</td></tr><tr><td>44</td><td>P152/SCS53_0</td></tr><tr><td>43</td><td>P073/AN33/ICU3_2</td></tr><tr><td>42</td><td>P072/SIN4_0/AN34/ICU2_2/INT5_0</td></tr><tr><td>41</td><td>P071/SCK4_2/AN35/ICU1_2/MONCLK</td></tr><tr><td>40</td><td>P070/ICU0_2</td></tr><tr><td>39</td><td>P067/AN36/FRCK5_0/AIN0_1</td></tr><tr><td>38</td><td>P066/SOT4_2/SCS3_0/AN37/FRCK4_0/BIN0_1</td></tr><tr><td>37</td><td>P065/SCS43_0/FRCK3_0/ZIN0_1/PG44_1</td></tr><tr><td>36</td><td>P064/SCS42_0/AN38/FRCK2_0/AIN1_1/PG43_1</td></tr><tr><td>35</td><td>P063/SCS41_0/AN39/PG5_1/FRCK1_0/BIN1_1</td></tr><tr><td>34</td><td>P062/SCS10_1/SCS40_0/AN40/PG4_1/FRCK0_0/TOT7_1/ZIN1_1</td></tr><tr><td>33</td><td>P061/SOT10_1/AN41/ICU6_0/PG3_1/ICU3_1/TOT6_1/INT13_1</td></tr><tr><td>32</td><td>P060/SCS10_0/PG2_1/ICU2_1/TOT5_1/INT13_0</td></tr><tr><td>31</td><td>AVSSI/AVRL1</td></tr><tr><td>30</td><td>AVRHI</td></tr><tr><td>29</td><td>P057/SCK10_1/AN42/ICU8_0/TRG0_2/PG1_1/ICU1_1/TIN6_1</td></tr><tr><td>28</td><td>AVCCI</td></tr><tr><td>27</td><td>P055/SIN10_0/AN43/PG37_0/TIN4_1</td></tr><tr><td>26</td><td>VSS</td></tr></table>	49	P087/DA00/PG7_0/INT8_0	48	P086/DA01/PG6_0	47	P082/SIN5_0/ANI/PG2_0	46	P081/SOT5_0/SDA5/ANO/PG1_0	45	P153/SCS5_0/SC15/AN32/FRCK1_1/INT4_1	44	P152/SCS53_0	43	P073/SOT4_0/SDA4/AN33/ICU3_2	42	P072/SIN4_0/AN34/ICU2_2/INT5_0	41	P071/SCK4_2/AN35/ICU1_2/MONCLK	40	P070/ICU0_2	39	P067/AN36/FRCK5_0/AIN0_1	38	P066/SOT4_2/SCS3_0/AN37/FRCK4_0/BIN0_1	37	P065/SCS43_0/FRCK3_0/ZIN0_1/PG44_1	36	P064/SCS42_0/AN38/FRCK2_0/AIN1_1/PG43_1	35	P063/SCS41_0/AN39/PG5_1/FRCK1_0/BIN1_1	34	P062/SCS10_1/SCS40_0/AN40/PG4_1/FRCK0_0/TOT7_1/ZIN1_1	33	P061/SOT10_1/AN41/ICU6_0/PG3_1/ICU3_1/TOT6_1/INT13_1	32	P060/SCS10_0/PG2_1/ICU2_1/TOT5_1/INT13_0	31	AVSSI/AVRL1	30	AVRHI	29	P057/SCK10_1/AN42/ICU8_0/TRG0_2/PG1_1/ICU1_1/TIN6_1	28	AVCCI	27	P055/SIN10_0/AN43/PG37_0/TIN4_1	26	VSS	50	VCC	49	P087/DA00/PG7_0/INT8_0	48	P086/DA01/PG6_0	47	P082/SIN5_0/ANI/PG2_0	46	P081/SOT5_0/SDA5/ANO/PG1_0	45	P153/SCS5_0/SC15/AN32/FRCK1_1/INT4_1	44	P152/SCS53_0	43	P073/AN33/ICU3_2	42	P072/SIN4_0/AN34/ICU2_2/INT5_0	41	P071/SCK4_2/AN35/ICU1_2/MONCLK	40	P070/ICU0_2	39	P067/AN36/FRCK5_0/AIN0_1	38	P066/SOT4_2/SCS3_0/AN37/FRCK4_0/BIN0_1	37	P065/SCS43_0/FRCK3_0/ZIN0_1/PG44_1	36	P064/SCS42_0/AN38/FRCK2_0/AIN1_1/PG43_1	35	P063/SCS41_0/AN39/PG5_1/FRCK1_0/BIN1_1	34	P062/SCS10_1/SCS40_0/AN40/PG4_1/FRCK0_0/TOT7_1/ZIN1_1	33	P061/SOT10_1/AN41/ICU6_0/PG3_1/ICU3_1/TOT6_1/INT13_1	32	P060/SCS10_0/PG2_1/ICU2_1/TOT5_1/INT13_0	31	AVSSI/AVRL1	30	AVRHI	29	P057/SCK10_1/AN42/ICU8_0/TRG0_2/PG1_1/ICU1_1/TIN6_1	28	AVCCI	27	P055/SIN10_0/AN43/PG37_0/TIN4_1	26	VSS
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45	P153/SCS5_0/SC15/AN32/FRCK1_1/INT4_1																																																																																																			
44	P152/SCS53_0																																																																																																			
43	P073/AN33/ICU3_2																																																																																																			
42	P072/SIN4_0/AN34/ICU2_2/INT5_0																																																																																																			
41	P071/SCK4_2/AN35/ICU1_2/MONCLK																																																																																																			
40	P070/ICU0_2																																																																																																			
39	P067/AN36/FRCK5_0/AIN0_1																																																																																																			
38	P066/SOT4_2/SCS3_0/AN37/FRCK4_0/BIN0_1																																																																																																			
37	P065/SCS43_0/FRCK3_0/ZIN0_1/PG44_1																																																																																																			
36	P064/SCS42_0/AN38/FRCK2_0/AIN1_1/PG43_1																																																																																																			
35	P063/SCS41_0/AN39/PG5_1/FRCK1_0/BIN1_1																																																																																																			
34	P062/SCS10_1/SCS40_0/AN40/PG4_1/FRCK0_0/TOT7_1/ZIN1_1																																																																																																			
33	P061/SOT10_1/AN41/ICU6_0/PG3_1/ICU3_1/TOT6_1/INT13_1																																																																																																			
32	P060/SCS10_0/PG2_1/ICU2_1/TOT5_1/INT13_0																																																																																																			
31	AVSSI/AVRL1																																																																																																			
30	AVRHI																																																																																																			
29	P057/SCK10_1/AN42/ICU8_0/TRG0_2/PG1_1/ICU1_1/TIN6_1																																																																																																			
28	AVCCI																																																																																																			
27	P055/SIN10_0/AN43/PG37_0/TIN4_1																																																																																																			
26	VSS																																																																																																			

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15	■Pin Assignment MB91F52xF	- Top  ↓ 				
15	■Pin Assignment MB91F52xF	The following note added on the bottom left of Figure. * In a single clock product, pin 86 and pin 87 are the general-purpose ports.				
16	■Pin Assignment MB91F52xJ	The following note added on the bottom left of Figure. * In a single clock product, pin 102 and pin 103 are the general-purpose ports.				
17	■Pin Assignment MB91F52xK	The following note added on the bottom left of Figure. * In a single clock product, pin 121 and pin 122 are the general-purpose ports.				
18	■Pin Assignment MB91F52xL	The following note added on the bottom left of Figure. * In a single clock product, pin 149 and pin 150 are the general-purpose ports.				
19 to 35	■PIN Description	A List of "Pin Description" modified. <table><tr><td>I/O Circuit types^{*1}</td><td>Function^{*2}</td></tr></table> ↓ <table><tr><td>I/O Circuit types^{*8}</td><td>Function^{*9}</td></tr></table>	I/O Circuit types ^{*1}	Function ^{*2}	I/O Circuit types ^{*8}	Function ^{*9}
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I/O Circuit types ^{*8}	Function ^{*9}					

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		Pin no.						Pin Name
		64	80	100	120	144	176	
		-	-	94	111	131	159	P000
								D16
								SIN1_0
								TIOA0_1
								INT2_0
		-	75	95	112	132	160	P001
								D17
								SOT1_0
								TIOA1_1
		(Correct)						
		Pin no.						Pin Name
		64	80	100	120	144	176	
		-	-	94 ^{*1}	111 ^{*1}	131	159	P000
								D16 ^{*4, *5}
								SIN1_0
								TIOA0_1 ^{*4}
								INT2_0
		-	75 ^{*1}	95 ^{*1}	112 ^{*1}	132	160	P001
								D17 ^{*3, *4, *5}
								SOT1_0 ^{*3}
TIOA1_1								